Ministry of Northern Development and Mines

Ontario

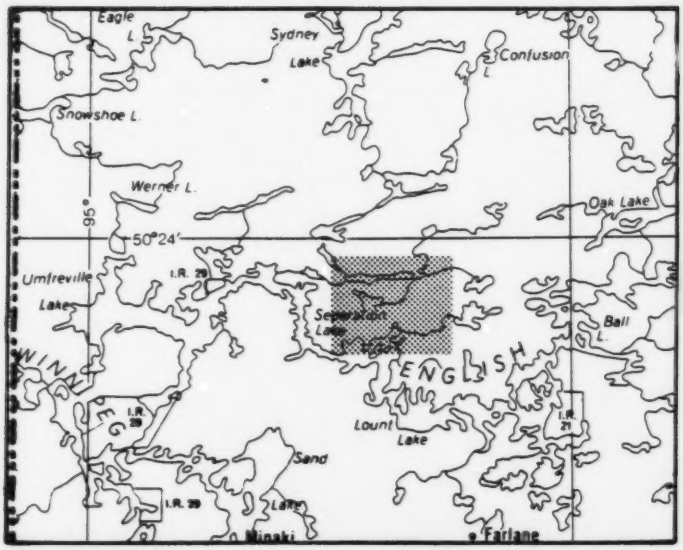
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 476

TREELINED LAKE AREA

Compiled by the Staff of
the Resident Geologist's Office
Kenora



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO Mineral Development Exploitation Minerale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

90-00707/

NTS Number 52L/8 SW

Mining Claim Map Number Treelined Lake G-2651 (M-2694)

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1989: Treelined Lake Area, Ontario Geological Survey, Geological Data Inventory Folio 476, compiled by the staff of the Resident Geologist's Office, Kenora; 19 pages and 2 Maps.

Original Compilation by: A. Schottroff

Date	Page Revised	Revised by

Date	Page Revised	Revised by

Treelined Lake Area

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ACCOMPANYING MAPS

Property Location Map 1 Map

Exploration Data Map 1 Map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	AS JUNE/88
2	Assessment Files Research Office, Toronto		
3	ODM General Index; 9 volumes	YES	AS JUNE/88
4	Catalogue of Airborne Geophysical Surveys (ODM)	YES	AS JUNE/88
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	AS JUNE/88
6	ODM Industrial Mineral Reports	YES	AS JUNE/88
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	AS JUNE/88
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	AS JUNE/88
9	Newspaper Clippings File	NO	AS JUNE/88
10	GSC Index to Publications	YES	AS JUNE/88
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	AS JUNE/88
12	OGS Index Maps	YES	AS JUNE/88
13	Source Mineral Deposit Records (O.G.S.) and MDIR'S	YES	AS JUNE/88
14	Author - Subject Articles File		
15	Miscellaneous Papers: ODM & OGS	YES	AS JUNE/88
16	ODM Geological Circulars: OGS Study Series	NO	AS JUNE/88
17	ODM Preliminary Reports: ODM Bulletins	YES	AS JUNE/88
18	ODM – OGS Open File Reports	NO	AS JUNE/88
19	OGS Northern Ontario Engineering Geology Terrain Studies	YES	AS JUNE/88
20	OGS Aggregate Resources Inventory Papers	YES	AS JUNE/88
21	OGS Mineral Potential Maps	YES	AS JUNE/88
22	Theses on File, Kenora	NO	AS JUNE/88
23	Aerial Photos on File, Kenora	NO	AS JUNE/88
24	OBM Maps on File, Kenora	NO	AS JUNE/88

METALS AND MINERALS REFERENCES LIST

- △ anh. . . . . .Anhydrite
- △ ank. . . . . .Ankerite
- △ anna . . . . . Annabergite
- △ ap. . . . . .Apatite
- △ arg . . . . . Argentite
- △ As . . . . . .Arsenic
- △ asp . . . . . .Arsenopyrite
- △ asb . . . . . .Asbestos
- △ ba. . . . . .Barite
- △ be. . . . . .Beryl
- △ Bi. . . . . .Bismuth
- △ bn . . . . . .Bornite
- △ bran . . . . . .Brannerite
- △ bruc . . . . . .Brucite
- △ Cd . . . . . Cadmium
- △ calc. . . . . .Calcite
- △ carb . . . . . .Carbonate
- △ cel . . . . . .Celestite
- △ cc. . . . . .Chalcocite
- ▲ cp. . . . . .Chalcopyrite
- △ ch. . . . . .Chert
- △ clay . . . . . .Clay
- △ Co . . . . . Cobalt
- △ cob. . . . . Cobaltite
- △ cb. . . . . .Columbite
- △ Cu . . . . . .Copper
- △ cor . . . . . Corundum
- △ dol . . . . . Dolomite
- △ ep. . . . . Epidote
- △ ery . . . . . Erythrite
- △ fel . . . . . .Feldspar
- △ fl . . . . . .Fluorite (flurospar)
- △ fu. . . . . .Fuchsite
- △ gn. . . . . .Galena
- ▲ gt. . . . . .Garnet
- △ goe . . . . . .Goethite
- △ Au . . . . . Gold
- ▲ gf. . . . . .Graphite
- △ gl . . . . . Gravel
- △ gyp. . . . . Gypsum
- △ hem . . . . . Hematite
- △ il . . . . . Ilmenite
- △ Fe . . . . . .Iron
- ▲ IF. . . . . Iron Formation
- △ jas . . . . . Jasper
- △ kaol . . . . . .Kaolinite (kaolin)
- △ ky . . . . . Kyanite
- △ Pb . . . . . Lead
- △ lim . . . . . Limonite
- △ Li. . . . . Lithium
- △ mgst . . . . . .Magnesite
- ▲ mag . . . . . .Magnetite
- △ mc . . . . . Malachite
- △ Mn . . . . . Manganese
- △ mb . . . . . .Marble
- △ mar. . . . . Marcasite
- △ ma . . . . . .Marl
- △ mi . . . . . Mica
- △ ml . . . . . .Millerite
- △ mo . . . . . Molybdenite
- △ Mo . . . . . .Molybdenum
- △ mon . . . . . Monazite
- △ ne. . . . . Nephelite (nepheline)
- △ nc. . . . . .Niccolite
- △ Ni. . . . . Nickel
- △ Nb . . . . . .Niobium
- △ Pd . . . . . .Palladium
- △ peat . . . . . .Peat
- △ pent . . . . . .Pentlandite
- △ Pt. . . . . .Platinum
- ▲ py . . . . . .Pyrite
- △ pyl . . . . . Pyrochlore
- △ pyrl . . . . . .Pyrolusite
- ▲ po . . . . . .Pyrrhotite
- △ q . . . . . .Quartz
- △ qcv . . . . .Quartz carbonate vein
- △ ra. . . . . .Radioactive minerals
- △ RE . . . . . .Rare Earths
- △ sd. . . . . Sand
- △ sgl . . . . . Sand and gravel
- △ ss . . . . . .Sandstone
- △ scap . . . . . Scapolite
- △ shee . . . . . .Scheelite
- △ serp . . . . . Serpentine
- △ sh. . . . . .Shale
- △ sid . . . . . Siderite
- △ si . . . . . .Silica
- △ Ag . . . . . .Silver
- △ sl . . . . . Slate
- △ sm . . . . . .Smaltite
- △ sod . . . . . Sodalite
- △ spec . . . . . Specularite
- △ sp. . . . . .Sphalerite
- △ spd . . . . . .Spodumene
- △ staur . . . . . .Staurolite
- △ stib. . . . . Stibnite
- △ st . . . . . .Stone
- △ talc. . . . . .Talc
- △ Te . . . . . .Tellurium
- △ td. . . . . Tetrahedrite
- △ th. . . . . .Thorite
- ▲ Th . . . . . .Thorium
- △ thuc . . . . . Thucholite
- △ ti . . . . . Titanite
- △ Ti. . . . . Titanium
- △ tour . . . . . .Tourmaline
- △ trap . . . . . .Trap rock
- △ W. . . . . Tungsten
- △ uran . . . . . Uraninite
- ▲ U . . . . . .Uranium
- △ verm . . . . . .Vermiculite
- △ Y . . . . . Yttrium
- △ Zn . . . . . .Zinc
- △ zr. . . . . .Zircon
- ▲BIF. . . . . Banded Iron Formation
- ▲urp. . . . . .Uranophane
- ▲C. . . . . .Carbon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or mentioned within either Drillhole Summary or mineral Occurrences

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Centurion - Separation Lake IF Occurrence	BIF,po,py (gt), mag			Assessment Files (52L/8 SW B-1)
B	Harrison Graphite Occurrence	C,gf,po,cp, py			OGS MP 134, 1987, p.64 Assessment Files (52L/8 SW I-1)
C	Tombill-Glen Echo-Separation Lake IF Occurrence	IF,po,py, mag,(cp,gt)	MDIR KP0415 MNI 52L/8 Fe1	OGS MRC 11, p.209-210	Assessment Files (52L/8 SW A-1) OGS Map P.366
D	Treelined Lake Uranium Occurrence	urp, Th, U	MDIR KP0437	MDC 25 p.80 MDC 26 p.193	OGS MP 71, 1977, p.8,9 OGS Map P.1028, 1975 Umfreville-Separation Lakes Sheet OGS MP72, 1978, p.46 with OGS Map P.1971
E	Trout Lake Uranium Occurrence	U			OGS Map P.1971, 1978

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done;e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
1	Bellweather Resources Ltd. 52L/8 SW I-1			87		87/ 88						88	88							
2	Centurion Mines 52L/8 SW B-1				59	59														
3	Hale, Ralph 52L/8 SW E-1			78																
4	Noranda Exploration Company Limited 52L/7 SE F-5								83											
5	Noront Resources 52L/8 SW H-1	87		87																
6	Perkins, George 52L/8 SW D-1			78																
7	Tibbo, Harold George 52L/8 SW G-1			84		84														
8	Tibbo, Harold George 52L/8 SW G-2			84		84														
9	Tombill-Glen Echo Mines 52L/8 SW A-1				57	57		57												

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
10	Tombill-Glen Echo Mines 52L/8 SW A-2			57					57			57								
10	Tombill-Glen Echo Mines 52L/8 SW A-3					57		57												

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
1	Centurion Mines Limited	1	Apr/59	N	-45°	10	354	BIF,po,gt	Fe
2	Centurion Mines Limited	2	Apr/59	N	-45°	22	371	BIF,py,po	Fe
2	Centurion Mines Limited	3	Apr/59	N	-45°	5	250	BIF	Fe
3	Centurion Mines Limited	4	Apr/59	N	-45°	3	347	BIF,py,po	Fe
3	Centurion Mines Limited	5	Apr/59	N	-45°	2	222	BIF,po	Fe
4	Centurion Mines Limited	6	Apr/59	N	-45°	9	307	BIF,py,gt	Fe
4	Centurion Mines Limited	7	Apr/59	N	-45°	41	353	BIF,py,po	Fe
5	Centurion Mines Limited	8	Mar/59	N	-45°	5	255		
5	Centurion Mines Limited	9A	Apr/59	N	-45°	5	203		
6	Centurion Mines Limited	10	Mar/59	N	-45°	12	295	mag,BIF,py	Fe
6	Centurion Mines Limited	21	Apr-May/59	N	-45°	65	299.3	BIF,py,po	Fe
7	Centurion Mines Limited	11	Mar/59	N	-45°	20	176	py	Au
7	Centurion Mines Limited	11A	May/59	N	-45°	5	454	BIF,py,po	Fe
8	Centurion Mines Limited	12	Mar/59	N	-45°	25	218		
8	Centurion Mines Limited	13	Mar/59	N	-45°	27	181	py	
8	Centurion Mines Limited	14	Mar/59	N	-49°	32	183		
9	Centurion Mines Limited	15	Apr/59	N	-44°	13	181	BIF,py,po	Fe

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
10	Centurion Mines Limited	16	Apr/59	N	-45°	6	248	BIF,py	Fe
10	Centurion Mines Limited	17	Apr/59	N	-45°	2	393	BIF,py	Fe
10	Centurion Mines Limited	18	Apr-May/59	N	-45°	4	401	BIF	Fe
10	Centurion Mines Limited	22	May/59	N	-45°	4	281	BIF,py	Fe
10	Centurion Mines Limited	23	Apr-May/59	N	-45°	2	302	BIF,py	Fe
11	Centurion Mines Limited	19	Apr/59	N	-45°	13	211		
11	Centurion Mines Limited	20	Apr/59	N	-45°	2	210		
12	Tombill Gold Mines Ltd.	A1	Aug/57	152°30'	-45°	4	504	po,py,mag,IF	
12	Tombill Gold Mines Ltd.	A2	Aug/57	153°	-60°	21	639	IF,po,cp,py,mag	
13	Tombill Gold Mines Ltd.	A3	Aug/57	155°	-45°	0	511	py,po,IF,mag,cp	
14	Tombill Gold Mines Ltd.	A4	Aug/Sept/57	160°	-60°	19	414.5	IF,po,py,cp,gt	
15	Tombill Gold Mines Ltd.	A5	Sept/57	166°30'	-45°	0	472.0	IF,po,gt	
15	Tombill Gold Mines Ltd.	A6	Sept/57	166°30'	-60°	0	670.0	IF,gt	
16	Tombill Gold Mines Ltd.	A7	Sept/57	NA	-45°	14	579.5	IF,py,gt	
17	Tombill Gold Mines Ltd.	A8	Sept/Oct/57	155°	-60°	0	732	py,po,IF,gt	

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
4	By: Questor Surveys Limited For: Noranda Exploration Company Limited (see Kenora Assessment Files 52L/7 SE F-5)	Total Magnetic Intensity Survey	n/a	NNW/SSE	250m
10	By: Canadian Aero Services Ltd. For: Tombill Gold Mines Limited (see Kenora Assessment Files 52L/8 SW A-2)	Total Magnetic Intensity Survey	500 ft.	N/S	1/4 mile

GDIF FORM NO. 4

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
	No surveys on file as of June 2, 1988			

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
	No age dating on file as of June 2, 1988			

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

No clippings on file pertaining to the Treelined Lake area as of June 2, 1988

ODM GENERAL INDEX SEARCH

Words searched Bellweather Resources, Centurion Mines, English River, Garnets, Glen-Echo Gold Mines, Hale, R., Iron Formation, Noranda Exploration Company Limited, Noront Resources, Perkins, G., Separation Lake, Tibbo, H.G., Tombill-Glen Echo Gold Mines, Treelined Lake, Trout Lake, Uranium

Index Volume	Listing:	Report Volume	Part	Page
1	Separation Lake, English River, Kenora and Patricia	N.O.*		282
3	English River	ODM 39 with Map 39G	3	24 to 41
3	Separation Lake, English River, rocks	ODM 39 with Map 39G	3	
3	Tombill Gold Mines Ltd., Incorporated	45	1	53
5	Glen Echo Mines Ltd., Incorporated	60	1	44
8	English River Metavol./Sed. Belt Werner-Melchett Lake Area, Kenora Kenora-Pat and Thunder Bay District	 MP 047 MP 059		 52-56 26-28
8	Separation Lake Prospect Separation Lake area, Kenora District Mining Property, report on	 MRC011		 209-210
8	Uranium - Separation Lake area, Kenora-Patricia District	MP 046		28
9	English River Metased/Vol. Belt; Geology of the Area - Report and Map P.1971 on, 1978 by Breaks, F.W., Bond, W.D., and Stone, D.	MP 072		55 pp
9	Garnet - English River Belt, N. Ontario	MP 072		13, 18
9	Perkins, G., & Harrison, J. Sydney Lake area, Kenora-Pat. District	 MP 071		 8,9
9	Separation Lake Sydney Lake area, Kenora-Pat. District	 MP 072		 24,31
9	Treelined Lake Occurrence Umfreville Lake area, Kenora-Pat. District	 MP 071		 6-9 passim
9	Uranium - English River Belt, N. Ontario	MP 072		46-47

* Report of the Survey and Exploration of Northern Ontario, 1900

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL COMPILATION MAPS		
Ayres, L.D., Lumbers, S.B., Milne, V.G., Robeson, D.W.	1970	Ontario Geological Map, West Central Sheet	ODM Map 2199	1" to 16 miles
Beakhouse, G.P.	1980	Geology, Winnipeg River-English River Area, Manitoba and Ontario, map and notes	GSC Open File 652	1:125,000
Breaks, F.W., Bond, W.D., McWilliams, G.H. Gower, C.F., Stone, D.	1975	Operation Kenora-Sydney Lake, Umfreville-Separation Lakes Sheet, District of Kenora	ODM Map P.1028	1" to 1 mile (1:63,360)
Davies, J.C., Pryslak, A.P.	1966	Lower English River Sheet, District of Kenora Geological Compilation Series	ODM Map P.366	1" to 2 miles (1:126,720)
Ferguson, S.A., Brown, D.D. Davies, J.C., Pryslak, A.P.	1968	Red Lake-Birch Lake Sheet, Geological Compilation Series	ODM Map 2175	1" to 4 miles (1:253,440)
Tanton, T.L.	1939	Canada Dept. of Mines and Resources, Kenora Sheet, Ontario	Map 266A	1" to 8 miles (1:506,880)
Thurston, P.C., Barlett, J.R.	1981	Lower English River Sheet, Patricia Kenora District, (revision of Map P.366)	OGS Map P.2394	1" to 2 miles (1:126,720)
		GEOPHYSICAL MAPS		
Dept. of M & NR, Manitoba, Dept. of EMR, GSC and ODM	1965	Pointe du Bois Manitoba-Ontario Airborne Magnetic Survey, Aeromagnetic Series (with Geophysics Paper 7124)	Map 7124G	1:250,000
Dept. of MR & E, Manitoba, MNR Ontario and EMR, GSC	1977	Federal-Provincial Uranium Reconnaissance Program Airborne Gamma-Ray Spectrography Pointe du Bois Area	36252G-1-6	1:250,000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOPHYSICAL MAPS		
Geo-Analysis (1981) Ltd.	1981	The Identification of Structural Linears from Landsat Imagery in Northwestern Ontario. Energy, Mines and Resources Canada, Earth Physics Branch, Seismological Service of Canada	OF 82-12, Map 1	1:250,000
Gravity & Geodynamics Division	1981	Gravity Map of Canada, 1980, Lake of the Woods, Earth Physics Branch, Energy, Mines and Resources Canada	Map No. 48090	1:1,000,000
G.S.C.	1984	Radioactivity Map, Lake of the Woods - Contour Maps: Ur(TC), eU, eTh, %K, eU/eTh, eU/K, eTh/K	OF 1067, Map 3625G	1:1,000,000
ODM & GSC	1981	Aeromagnetic Series, Umfreville Lake, Kenora District Ontario	Map 1189G	1" to 1 mile (1:63,360)
ODM & GSC	1965	1961 Aeromagnetic Survey Composite Map	P. 279	1" to 16 miles (1:1,013,760)
OGS-GSC	1977	Uranium Reconnaissance Program Airborne Gamma-Ray Spectrometer Survey - Contour Maps: TC,K,eU,eTh,eU/eTh,eU/K,eTh/K - Flight Line Profiles	P.1320-1354	1:250,000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Jenkins, G.C., Hoffman, D.W., Smith, R.E., Zoltai, S.C.	1975	Canada Land Inventory, Soil Capacity for Agriculture, Pointe du Bois Sheet	No. En 64/2-52L	1:250,000
Neilson, J.M.	1981	Northern Ontario Engineering Geology Terrain Study, Data Base Map, Umfreville Lake (not released)	OGS Map 5106	1:100,000
Zoltai, S.C.	1965	Kenora-Rainy River Surficial Geology	ODL & F Map S165	1" to 8 miles (1:506,880)

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		MINERAL POTENTIAL MAPS		
Robertson, J.A.	1982	Uranium and Thorium Deposits of Ontario, West Central Sheet, Mineral Deposits Series	OGS Map P.2427	1" to 16 miles (1:1,013,760)
Springer, Janet	1978	Ontario Mineral Potential, Pointe du Bois Sheet, District of Kenora, Mineral Deposits Series	OGS Map P.1539	1:250,000
		GEOLOGICAL REPORTS AND MAPS		
Beard, R.C., Rivett, S.	1977	1976 Report of the Northwest Regional Geologist and Kenora Resident Geologist	OGS MP 71	p. 8,9
Bell, R.	1873	Report on the Country Between Lake Superior and Lake Winnipeg	GSC Report of Progress, 1872-1873, pt. 5	
Breaks, F.W., Bond, W.D., Stone, D.	1978	Preliminary Geological Synthesis of the English River Subprovince, Northwestern Ontario, and Its Bearing Upon Mineral Exploration	OGS MP 72 with Map P. 1971	55 pp 1" to 4 miles (1:253,440)
Derry, D.R.	1930	Minaki to Sydney Lake	ODM Vol. 39, pt.3 Map 39G	p. 24-41 1" to 3 miles (1:190,080)
Janes, D.A., et al	1987	Report of Activities, 1986, Regional and Resident Geologists	OGS MP 134	p. 64
Robertson, J.A. and Gould, K.L.	1983	Uranium and Thorium Deposits of Northern Ontario	OGS MDC 25	p. 80-81
Selwyn, A.R.C.	1873	Notes on a Preliminary Geological Reconnaissance from Lake Superior by the English and Winnipeg Rivers to Fort Garry	GSC Report of Progress, 1872-1873, pt. 2	
Vos, M.A., Abolins, T., McKnight, R.L.W., Smith, V.	1987	Industrial Minerals of Northern Ontario	OGS MDC 26	p. 193

NOTES AND ADDENDA

AERIAL PHOTOGRAPHY INDEX

(compiled from index maps only)

Scale 1" to 1/4 mile

	Roll Number	Photo Number
1983	83-4	31-42
	83-4	170-182
	83-5	35-47
	83-6	34-46
	83-6	115-128
	83-27	250-260
	83-28	60-62
	83-56	24
1976	76-7	2-15
	76-7	94-108
	76-8	2-13
	76-8	82-95
	76-27	142-155
	76-29	183-195
	76-31	105-109

Scale 1" to 1 mile

	Flight Line	Photo Number
1953	A 13788	63-65
	A 13788	114-116

TOPOGRAPHIC MAPS

1976, Surveys and Mapping Branch
Department of EMR, Ottawa
Lennan Lake, 52L/8 — 1: 50,000*

1984, Surveys and Mapping Branch
MNR, Toronto, Provincial Series
Umfreville Lake, 52L/SE and
Part of 52L/SW — 1:100,000*

1978, Surveys and Mapping Branch
Department of EMR, Ottawa
Pointe du Bois — 1:250,000*

*Published maps currently on file in Resident Geologist's Office, Kenora

MINERAL DEPOSITS FILE

Note: A deposits file is maintained at the Kenora Resident Geologist's Office which contains the published data on the following mineral deposits:

1. Tombill Gold Mines Ltd., Separation Lake
2. Treelined Lake Uranium Occurrence

NOTES AND ADDENDA

Note A: Trout Lake on which the Harrison Graphite Occurrence is located is the local name for the lake which lies about 1 1/2 miles S.W. of Treelined Lake.

50° 22' 30"

94° 30' 00"

Cabin L.

Salvesen

Lake

Campfire

Sturgeon R.

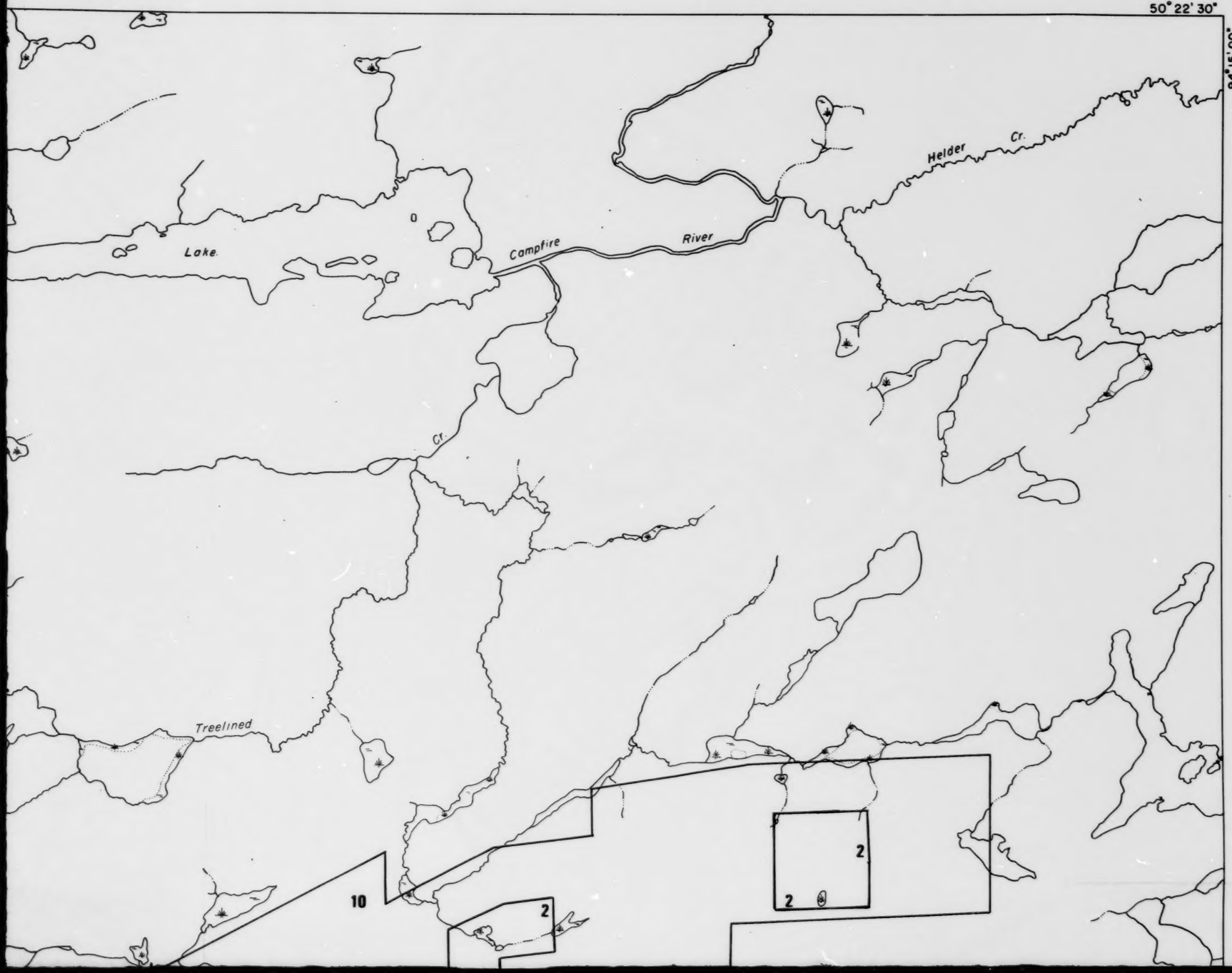
Treelined Lake

Treelined

4

10

2



Ministry of Northern Development and Mines

Ontario

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 476

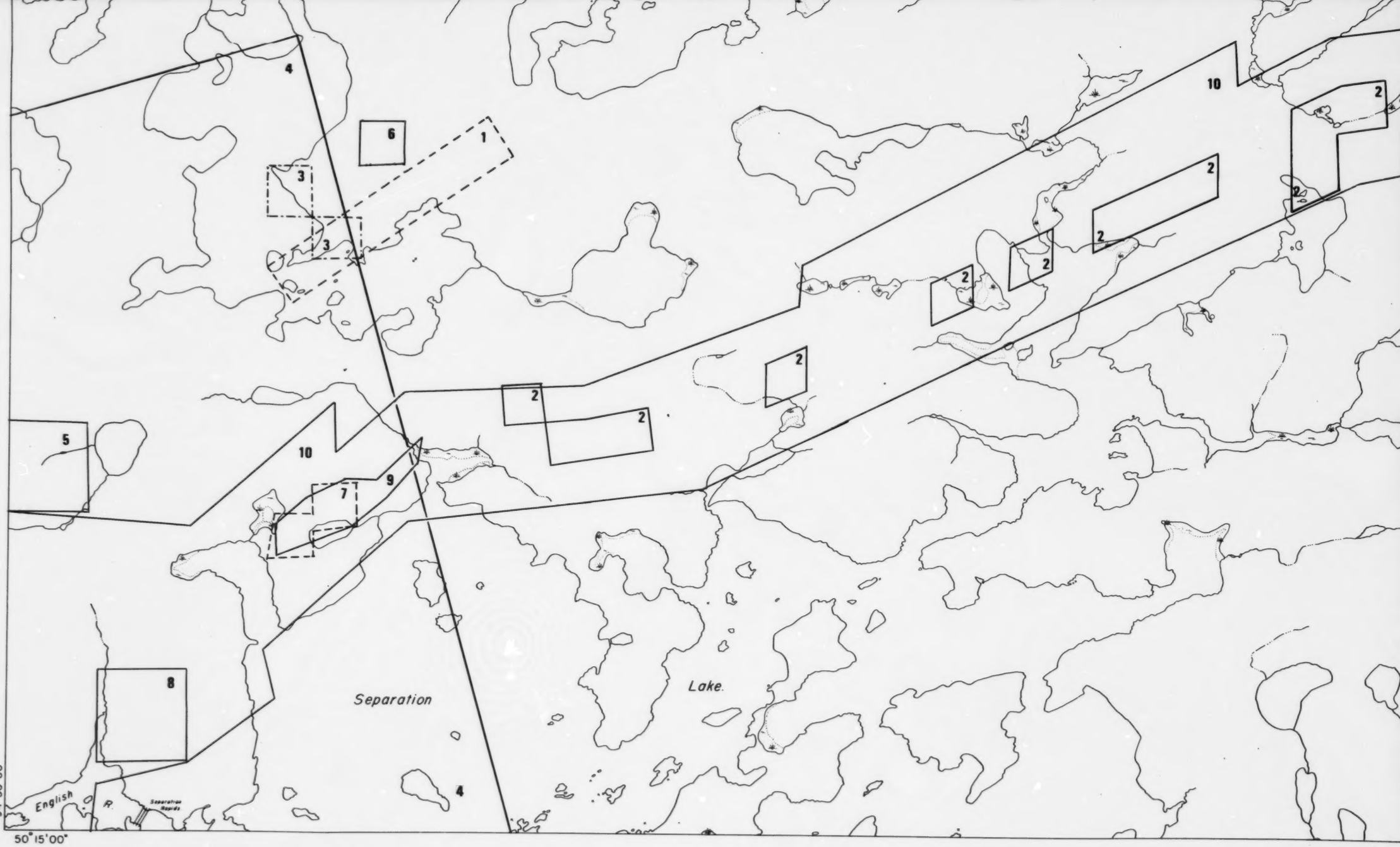
(Map 1 of 2)

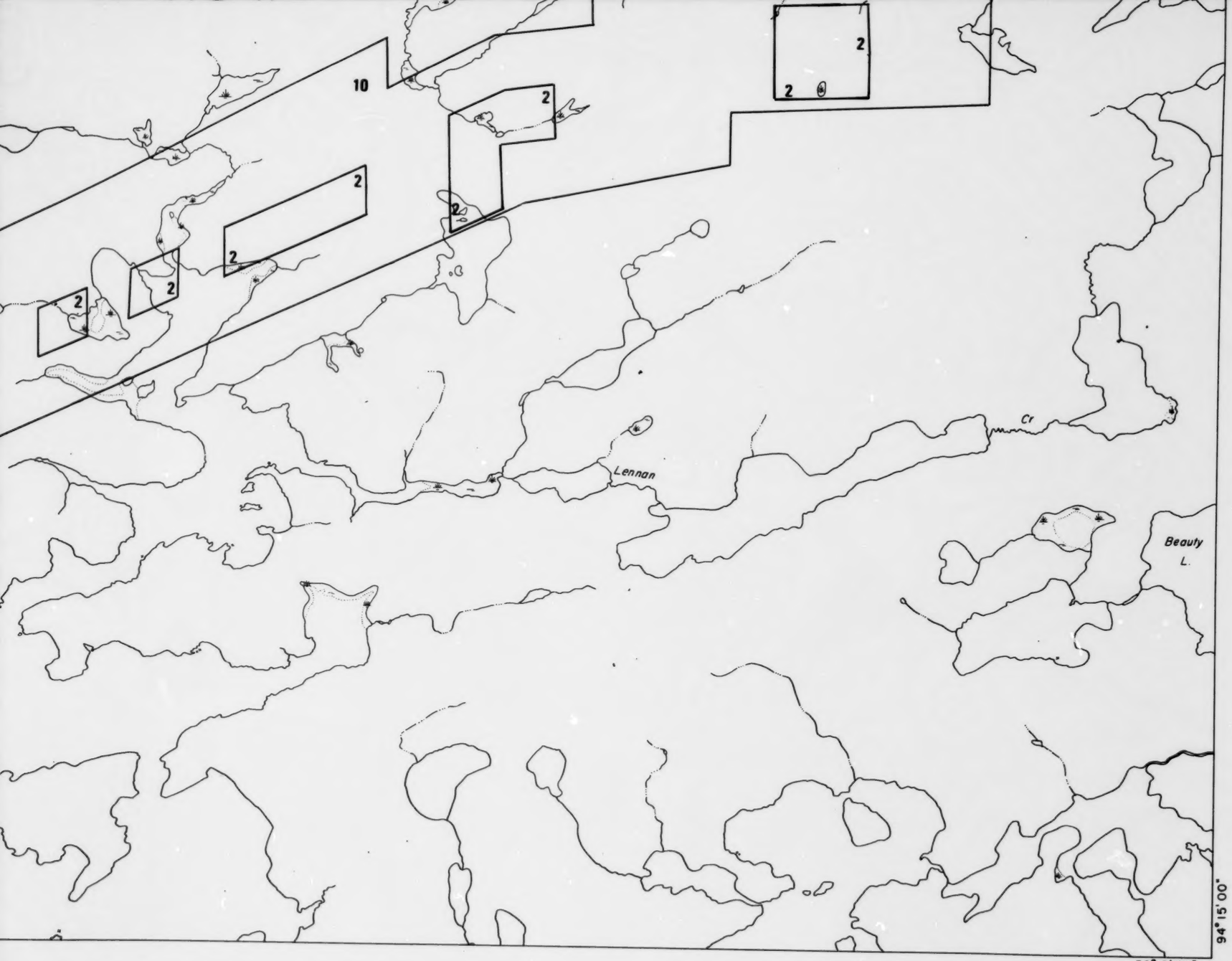
TREELINED LAKE AREA

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile


4
6
1
3
3
10
2
2
2
2
2
2
2
5
10
9
7
8
Separation
Lake
4
English
R.
94°30'00"
50°15'00"



EXPLORATION DATA FILE AREAS

■ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area of exploration

□ ★ File covers whole township or area

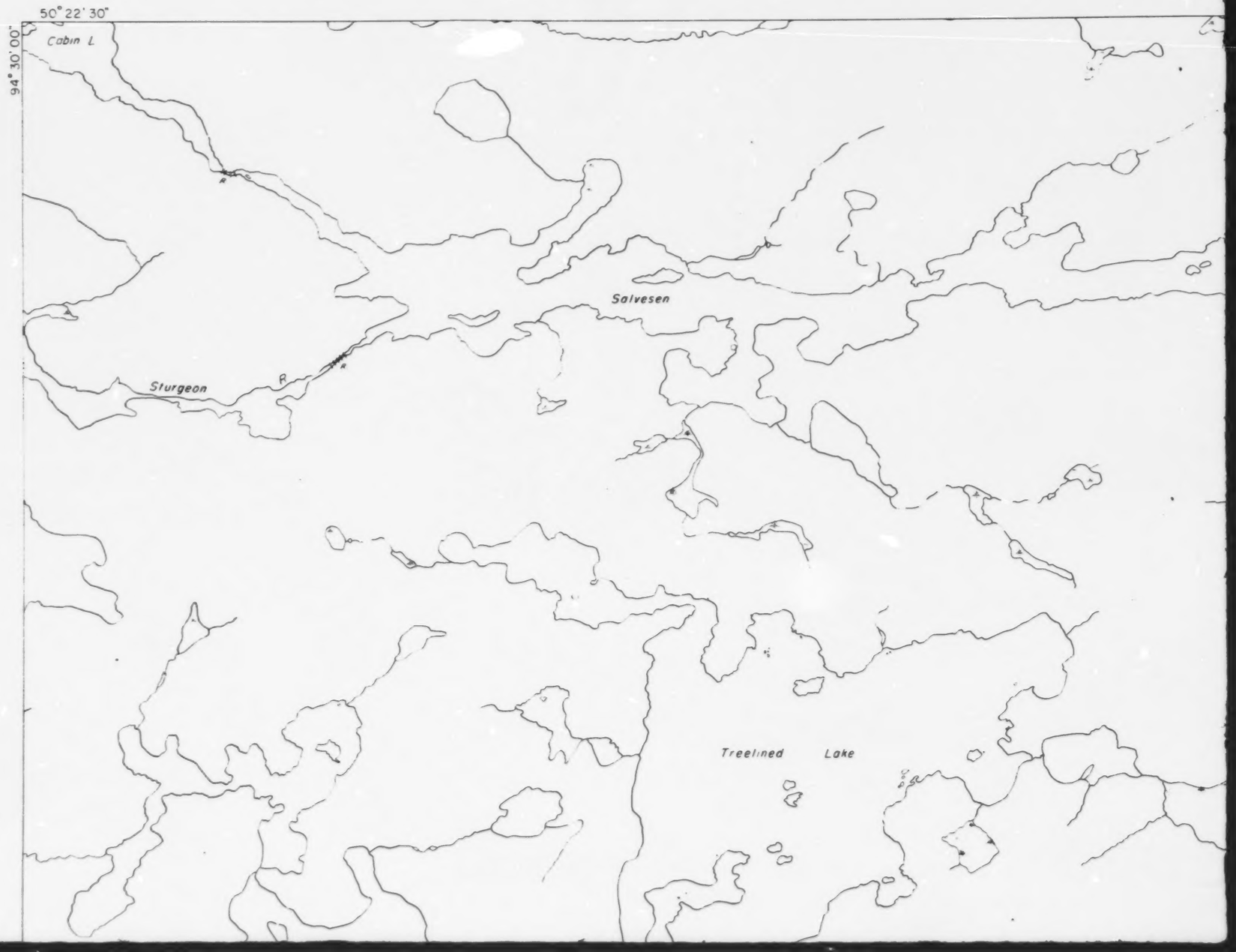
TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- ☐ ◆3 — Geochemical sample site, with reference number
- ☐ ◆3 — Area of geochemical sampling, with reference number
- ☐ ✳2 — Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ■ —AM— Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly
  Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
  Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- ☐ —ARA— Airborne radiometric anomaly
- ■ —M— Ground magnetic anomaly
- ■ —VL— Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop
  VLF - Very low freq.; Turam; JEM - Crone Em - 16)



50°22'30"

94°15'00"

Lake

Campfire River

Helgar Cr

Treelined Lake

Treelined

Ministry
Northern
and Min

Ontario

ONTARIO

EXPLOR

GEOLOGICAL DAT

TREELINE

Sc

Kilometre 0.5 0

Mile 0.5 0

GEOLO

Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 476

(Map 2 of 2)

TREELINED LAKE AREA

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

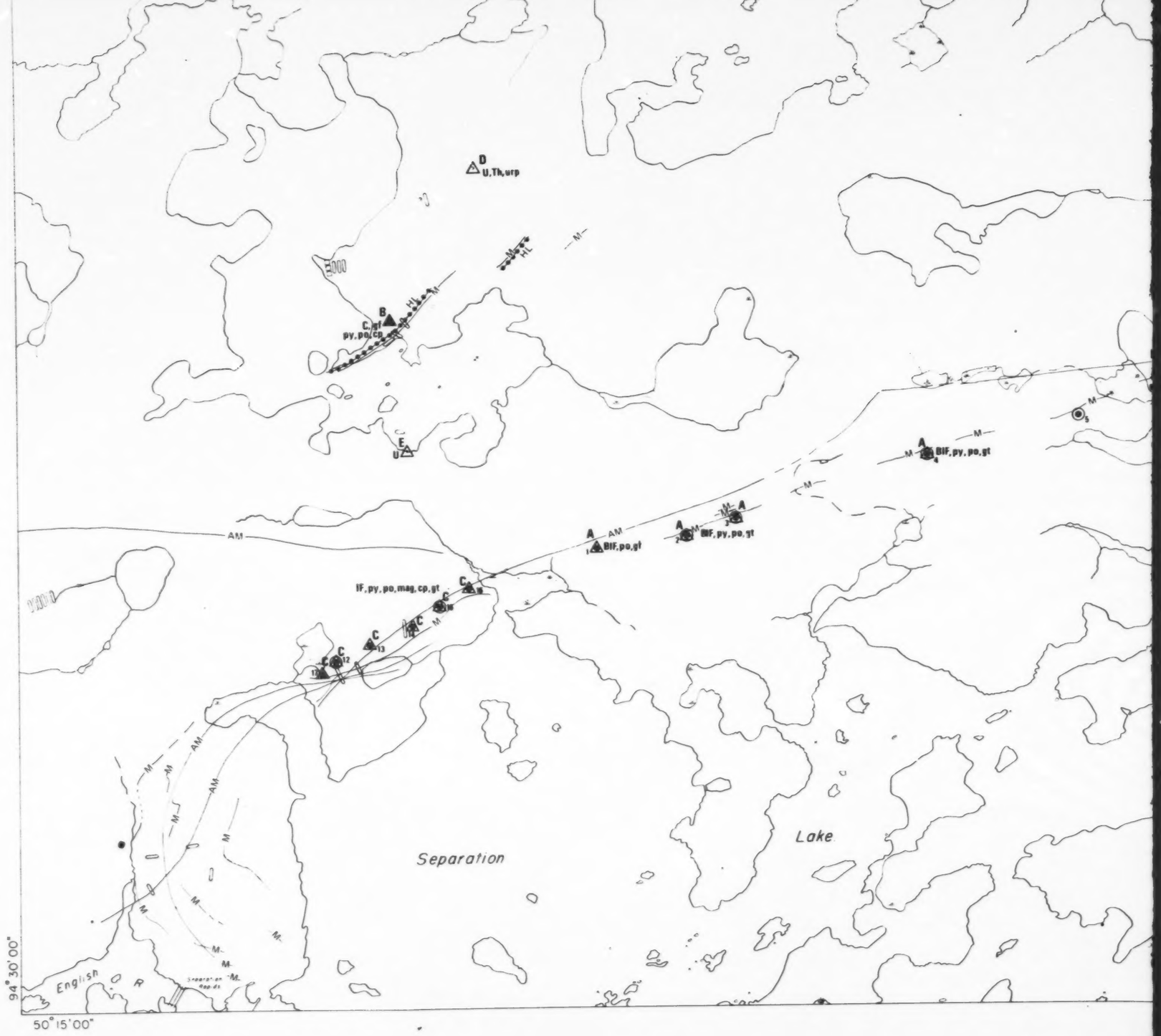
GEOLOGICAL AND MINING SYMBOLS

- Airborne radiometric anomaly
- Ground magnetic anomaly
- Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- Ground radiometric anomaly
- Induced polarization anomaly
- Self potential anomaly
- Audio-frequency magnetic anomaly (total intensity)
- Resistivity anomaly
- Gravity anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



GEOLO

TYPES OF DATA SHOWN

- Mineral
- Mineral referen
- Minera with re
- Mineral
- Mineral and dri
- Minera drill ho
- Locatio
- Locatio referen
- Drillho
- Proper with re
- Proper with re
- Revers numbe

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ■ cp A. — Mineral occurrence at surface, with reference letter
- □ Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- ■ Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- □ cp A. — Mineralized float with reference letter
- ■ U A. 1 — Mineral occurrence in drillhole, with reference letter, and drillhole number
- ■ po B 2 — **Mineral occurrence from group of closely spaced drill holes, with reference letter, hole number**

DRILLHOLES

- □ ●² — Location of single drillhole, with reference number
- ■ ◉² — Location of closely spaced group of drillholes, with reference number
- □ ⊙² — Drillhole, exact location uncertain, with reference number
- □ ◡ — Property with underground drillholes in this general area, with reference number
- □ ○² — Property with drillholes which have not been plotted on map, with reference number
- □ ⊕² — Reverse circulation drillhole; churn drilling, with reference number